

ICOHTEC NEWSLETTER

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Newsletter of the International Committee for the History of Technology ICOHTEC

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Editorial

Dear Colleagues and Friends,

Good news: the deadline of our symposium in Porto is postponed to **29 February 2016**. Both ICOHTEC symposia – Porto 2016 and Rio de Janeiro 2017 have the same deadline now. Please find the greetings of our president Timo Myllyntaus. ICOHTEC organized a summer school for students and young scholars. It will take place in Lisbon and Porto 23 – 30 July 2016; the deadline for application is **29 February 2016**. We have many session proposals for both conferences, which are published in the Newsletter and on ICOHTEC's homepage.

Hermione Giffard invites for submissions to ICOHTEC's reviewed journal ICON. The deadline of ICOHTEC's Book Prize for Young Scholars is **15 February 2016**.

It will be a pleasure to meet you in Porto and Rio.

Best wishes
Stefan Poser

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I. ICOHTEC

I.1 Greetings from the President

"The Big Orange" was the site for ICOHTEC's 42nd Symposium on 16 - 20 August 2015. The conference was organised together with Histelcon, which acronym means HISTory of ELECTrotechnology CONFERENCE, and is a flagship Conference of IEEE Region 8 and IEEE History Center. In total, 115 registered participants attended it from 28 countries. Seventeen per cent of the attendants

represented the host country, Israel. The versatile scientific programme consisted of 28 sessions with 73 papers. Yoel Bergman, Shaul Katzir and their team hosted the conference at the impressive campus of Tel Aviv University. Anew, we may express our gratitude to the host for their hospitality.

While Tel Aviv, “the Mediterranean Manhattan”, has many nicknames, the site of our next symposium, Porto, has pet names, too. In Portuguese, its name is spelled with a definite article, *O porto*. Despite its short and pithy name, meaning simply *The port* in English, it also has noble and prestigious nicknames, such as *A Cidade Invicta* (The Invincible City) and *A Cidade da Virgem* (The City of the Virgin). Porto has been unceasingly inhabited since at least the 4th century, when the Romans referred to it as *Portus Calle*. Now it is Portugal's second largest city and the capital of the Northern region. In antiquity, the city was built along the mounts overlooking the Douro river mouth, and in 1996 UNESCO rewarded *World Heritage status* to its historical centre.

The general theme of our 43rd symposium is “Technology, Innovation, and Sustainability: Historical and Contemporary Narratives.” Three key concepts technology, innovation and sustainability will be examined in the meeting as promoters and actors in the constructing of the globalized community. This general theme contains discovering new continents, building worldwide transportation networks, rise and fall of colonial powers as well as waves of mass emigration. Besides research in a global scale, the symposium welcomes paper, poster and session proposals dealing with all kinds of topics providing that they are related to the history of technology broadly defined.

Honouring the long seafaring traditions of Portugal, the country of the Duke of Viseu, better known as Henry the Navigator (1394–1460), and the explorer Bartolomeu Dias (1451–1500), the symposium will encourage scholars to sail to new directions. In the spirit of Henry the Navigator, who is regarded as the foremost initiator of the Age of Discoveries, we hope that our symposium will initiate scientific breakthroughs in the coming years.

The deadline for submitting poster, paper and session proposals has been extended to Monday, **29 February**. However, our Porto Programme Committee has promised to be patient and is still welcoming proposals. Before working out your proposals, please, read the call for papers (<http://www.icohtec.org/annual-meeting-2016.html>) and guidelines for writing an appropriate submission <http://www.icohtec.org/proposal-guidelines.html>.

Because of the complex procedure for compiling the scientific programme to the 25th International Congress for History of Science, Technology and Medicine to be held in Rio de Janeiro in on 23-29 July 2017 (<http://www.ichst2017.sbh.org.br>), we are obliged to launch our call for papers one and half years before this mega meeting. The general theme of the Congress is “*Science, Technology and Medicine between the Global and the Local*”. ICOHTEC's 44th symposium will be organised in conjunction of the Rio Congress. Therefore, our CfP encourages to submit proposals for sessions dealing with the mentioned general theme as well as those related to the history of technology within this broad framework. While open to all proposals, the programme committee suggests focusing on the selection of sub-themes, which are listed in our call for papers; please, click the link: <http://www.icohtec.org/annual-meeting-2017.html>

The deadline for proposals to our Rio symposium is Monday **29 February 2016**. Please, submit proposals for papers and sessions via the ICOHTEC's online submission system at: <http://icohtec.org/annual-meeting/cfp-system/2017-rio/>

I look forward to meeting you among many Icohtecians in Porto and/or Rio de Janeiro.

Vento nas velas! / Wind in the sails!

Bon voyage,

Timo Myllyntaus

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I.2 ICOHTEC Summer School 2016

Deadline for application **29 February 2016**

Key Facts

Theme *Rethinking Technology, Innovation, and Sustainability: Historical and Contemporary Narratives*

Target Audience PhD students and recent post-doctoral researchers

Dates July 23 to July 25, 2016 (Part 1, Lisbon)
July 26 to July 30, 2016 (Part 2, Porto)

Venues in Lisbon Faculty of Sciences, University of Lisbon
Faculty of Science and Technology, NOVA University

Venue in Porto Faculty of Humanities, University of Porto (ICOHTEC Meeting)

Subject area(s) History of Technology
Environmental History
History of Science

Fees 80 Euros
Including ICOHTEC registration fee, accommodation, meals and transportation Lisbon-Porto.
Students will be lodged at the Universities' Halls of Residence.
ICOHTEC's travel grants program will be available for Summer School applicants.

Admission Applications will be accepted by email from January 21 to February 29, 2016 (see details below). Results will be communicated to the applicants by March 15th 2016.

Overview

ICOHTEC/CIUHCT Summer School is an innovative initiative organized by ICOHTEC (International Committee for the History of Technology) and the Portuguese research center CIUHCT (Interuniversity Centre for the History of Science and Technology), which aims at enriching the 43rd annual ICOHTEC meeting by associating a 3-day intensive seminar course targeting PhD students and young post-doctoral scholars. The Summer School features an original format that brings together conventional seminars and the participation in the ICOHTEC meeting and fulfils both CIUHCT's training mission and ICOHTEC's ambition of organizing regular Summer Schools.

The topic of the ICOHTEC/CIUHCT Summer School is *Rethinking Technology, Innovation, and Sustainability: Historical and Contemporary Narratives*. It aims at providing historical insight into the multifarious relations between the production and uses of technologies and the contemporary challenge of implementing local, national, and global strategies for sustainable development. The ongoing interdisciplinary discussion on the economic, social, political, and cultural meanings of the Anthropocene calls for a critical assessment of the role of science and technology in today's development paths. By using the lens of the History of Technology, this Summer School addresses the co-evolution of scientific and technological agency, the exploitation of natural resources and the creation of new, artificial environments.

Description

The ICOHTEC/CIUHCT Summer School consists of two parts:

Part 1: Academic Programme

- Daily lectures given by leading scholars.
- Presentation and discussion of the student's on-going research in small interactive seminar groups with specialist tutors.
- Design of a tailor-made programme of attendance in the ICOHTEC meeting.

Part 2: ICOHTEC Meeting

- Attendance at tailor-made set of sessions (depending on each student line of research and to be decided during the Summer School) within the ICOHTEC meeting program.

Speakers

Dick van Lente (Erasmus University Rotterdam, Netherlands)

Tiago Saraiva (Drexel University, USA)

A third speaker will be confirmed soon.

Certification

All students who complete the programme will receive an *attendance certificate*.

Level and demands

Who is the programme for?

- Ph.D students with a subject-appropriate academic background
- Post-doctoral researchers with a subject-appropriate academic background

Participants are expected to

- Be able to speak, read and write in English.
- Undertake preparatory reading in advance of the programme.
- Attend all lectures and seminar sessions.
- Be actively engaged with their seminar topics.
- Attend the ICOHTEC 2016 Meeting.
- Submit a final assignment of 2000-2500 words on one of the topics discussed.

Apply for this course

Deadline for application 29th February 2016.

Applicants must send the following data to icohtec2016@ciuhct.org:

- A brief cv, which must include the main personal data, academic training and career and the e-mail for further contact.
- A brief statement of purpose (350-400 words) detailing your academic reasons for wishing to attend the summer school. This should include what you hope to get out of the programme, and what you are likely to contribute to the intellectual life of the summer school. This may include details of history, politics, political or social science courses you have previously taken, or the relevance of the summer school to your present course of study or professional development.
- A letter of recommendation, specifically to your application to the CIUHCT/ICOHTEC Summer School.
- The subject line of the email should be "Summer School Application".

Please note that incomplete applications will not be considered.

After you have submitted your application

- You will receive in the e-mail you provided an email from us confirming receipt of your application materials
- Results will be communicated to the applicants by March 15 to the e-mail provided by the applicant.
- Applicants who are offered a place on the summer school must respond in writing within 14 days to accept or decline the offer.
- Students will be formally enrolled on the summer school once they have accepted their offer of a place.
- The enrolment process includes the issuing of invoices, which will be sent to students together with full instructions for payment.

If you have any remaining queries, please contact the Programme Administrators by email at icohtec2016@ciuhct.org.

I.3 Session Proposals for ICOHTEC's 43rd Symposium in Porto 2016

The Illusion of Globalized World, Sustainability and Fair Technology

We are seeking panellists for a session proposal for ICOHTEC's Symposium in Porto, 26-30 July 2016, "The illusion of globalized world, sustainability and fair technology".

„It's our world, take care of it"; "Being Green is Sexy"; "Keep your Earth Clean and Green"; "Reduce, Reuse & Recycle" – these are broadly known environmental awareness campaign slogans. The conclusion is quite simple: "We need to save and protect our planet" – climate, forests, the rest of environment, and also we need to think about... This kind of argument is typical for nowadays ecological discourse. Technology should follow the ecological paths and make civilized world less artificial and more natural. Let us examine the historical aspects of "the game of thrones" between "kingdoms" of technology, ecology, globalization and the needs of contemporary societies.

The healthcare and beauty industries, food production, automotive development of societies, building industry as well as military production etc., are responsible for environmental degradation. For years ecological politics was the problem of any given country, so, there are well known historical examples of some companies and globally active corporation which tried to move production and utilized wastes in the countries of liberal environmental politics. It was possible due to globalization and the desires of developed consumer society of the Western world. Fairness to the citizens of the other countries was not so important.

We assume that globalization – is the trend, sustainability – the idea, consumerism – the social activity, and technology – the main factor of social and cultural changes. In some optimistic visions both, globalization and sustainability, promote cooperation in very competitive conditions of consumer society typical to late stage of capitalism. However, to some researchers "globalization" is only the cover of westernization or Americanization of the local cultures and economies across the globe. Especially because when the newest wave of globalization started after the collapse of the communist system in Europe. Sustainable development seems to be more political than scientific idea. In the 20th century some doctrines on sustainability were introduced into the political game; although at the same time underdeveloped societies of the, so called, Third World suffered because of exploitations of their resources and human work force.

We invite theoretical and empirical papers dealing with the mentioned problems, we will try to answer the following (and other) questions:

1. How the development of technology is supported/ suppressed by the sustainability politics?
The analysis focused on the different historical periods are welcomed.

2. The results of technological competition between the sides of the Iron Curtain could be so devastated to environment as the nuclear tests. Are there any benefits of the technological competition as well?
3. Could we identify the examples of cooperation between the countries from the opposite political blocs during the bloom of technological inventions after WWII?
4. Globalization, sustainability, technology - are they in cooperation? In opposition? Or in the other form of relation? More subtle, more complex?

Please submit proposals to Urszula Jarecka, ujarecka@ifispan.waw.pl, and Sławomir Łotysz, s.lotysz@gmail.com by 27 February.

The Wine in the History: between Technology, Science and Transfer of Knowledge from 17th to 19th centuries – ICOHTEC's 43rd symposium in Porto 2016

We invite submissions of abstracts to join the panel titled "The Wine in the History: between Technology, Science and Transfer of Knowledge from 17th to 19th centuries."

Wine is inextricably linked to the human civilization. A highly symbolic cultural phenomenon which made the delight of poets and artists, it is associated both with the pleasures of life and conviviality and with their excesses. However, the social historical function of wine goes well beyond this symbolic representation. Indeed, without wine, many antic and medieval societies simply would not have survived, especially after the rise of the cities and the concomitant process of massive water pollution. The wine is also an economic phenomenon because its production and trade made the wealth of many cities, regions and countries.

Biggest beneficiary of Christian religious practices, the wine in the 17th century Europe suffered from the competition with the imported exotic drinks (tea, coffee, chocolate) before finding a new impetus in the technological innovations of the Enlightenment (bottles, corks and so on). During the 19th century, science and technology intervened actively in this traditional field, changing progressively the technical conditions of the production of wine and of its related accessories required for packaging, preservation, storage and transportation. The improved communications and the promotion of national legislations greatly contributed to transform the wine production into a world-wide spread industry having gained a foothold even in those geographical areas that had never experienced this culture before.

This session aims to explore some inedited aspects of this problematics linked, in particular, with engineering innovations in the field of wine production and with the role played in this process by the transfer of knowledge.

Please submit proposals to Irina Gouzevitch and Dmitri Gouzevitch (i_gouzevit@yahoo.fr) before 27 February.

Playing with Materials and Technology – Call for Papers for a Session

43rd Symposium of the International Committee for the History of Technology, Porto, Portugal, 26–30 July 2016

Deadline **20 February 2016**

Research in the field ‘Playing with Materials and Technology’ ought to contribute to the development of theory in the history of technology: materials, appropriate technology and play have crucial influence on the environment and on human life. Technological shaped materials – especially synthetics, since the mid-20th century – dominate our everyday environment. Technology and play have strongly influenced the development of societies. Thus research in this field might open new perspectives on the question how and why people deal with technology.

The session in Porto will focus on materials of play; papers might deal with:

- Playful approaches to scientific research on materials
- Influences of play on the biography of synthetic materials
- The role of new materials in sports and leisure
- The role of new materials in design
- Biography of toys and their link to different materials of construction

Contributions on other issues of the fields ‘Technological Shaped Materials’ and ‘Playing with Technology’ are welcome, too.

Please contact us until **20 February 2016** – Thank you.

Maria Elvira Callapez, CIUHCT, Faculdade de Ciências, Universidade de Lisboa,
mariaelviraclapez@gmail.com

Stefan Poser, Helmut-Schmidt University, Hamburg, poser@hsu-hh.de.

Radio Technologies in the Postwar Europe: Engineering, Institutions and Practices

43rd Symposium of the International Committee for the History of Technology, Porto, Portugal, 26–30 July 2016

Deadline **20 February 2016**

The postwar Europe, divided by the Iron Curtain, saw a new constellation of political powers, which operated on various levels. Universal access to radio became one of the determinants of the modernization process of the continent devastated by the recent war. This new political situation affected also the broad spectrum of practices related to technology, one of them being the radio broadcasting and radio technology. This series of panels seeks to create a comparative approach to the development of radio industry and radio technologies on both sides of the Iron Curtain and is aimed at exploring the differences and mapping the possible points of convergence on a number of levels.

Topics may include, but are not limited, to the following.

- tensions between the official state policy and the actual engineering practices;
- development of military-industrial complex and the role of this process in the further development of radio industry;
- continuities and discontinuities in the structure of ownership and their impact on the development of radio technologies;
- use of radio broadcasting technology for propaganda and commercial purposes;
- role of experimental practices in the development of radio technologies;
- transfer of technologies from the military sphere to civilian practices;
- transfer of technologies within the COMECON;
- subversive use of radio technologies in different political contexts;
- artistic practices related to radio technologies;
- design and radio technology;
- decline of radio industry companies in the East European countries after the fall of Communism

Paper proposals (up to 250 words) should be sent to Dr Joanna Walewska, Nicolaus Copernicus University, Toruń, Poland, joanna.walewska@gazeta.pl, by February 20, 2016.

11th Annual Symposium of the Social History of Military Technology

43rd Symposium of the International Committee for the History of Technology, Porto, Portugal, 26–30 July 2016

Bart Hacker organises his ICOHTEC Symposium of the Social History of Military Technology in Porto 2016 and in Rio 2017. Please find his call for papers in the next chapter.

I.4 Session Proposals for ICOHTEC's 44th Symposium in Rio de Janeiro 2017

12th Annual Symposium of the Social History of Military Technology

44th Symposium of the International Committee for the History of Technology, Rio de Janeiro, Brazil, 23–29 July 2017

Deadline **28 February 2016**

Proposals are sought for papers to be presented in the 12th Annual Symposium of the Social History of Military Technology (SSHMT), scheduled as part of the program for the 44th Symposium of the International Committee for the History of Technology (ICOHTEC), Rio de Janeiro, Brazil. ICOHTEC will be meeting jointly with the International Congress of the History of Science, Technology, and Medicine (ICHSTM), which has selected the general theme of: ***“Science, Technology and Medicine between the Global and the Local.”*** In submitting a proposal for SSHMT, you are encouraged, but not required, to address the ICOHTEC themes. For the 2017 ICOHTEC conference as a whole,

including information about accommodations, travel grants, and so forth, see: www.icohtec.org/annual-meeting-2017.html.

SSHMT, a regular part of the ICOHTEC annual meeting since 2005, strives to move beyond the narrow material focus of fans, antiquarians, and even some historians. The history of military technology usually centers on weaponry, warships, fortifications, or other physical manifestations of warfare, emphasizing how they were made or how they worked. Historians have also tended to assume a strictly utilitarian and rational basis for military technological invention and innovation. However necessary they may be, such approaches largely ignore some very important questions. What are the contexts of social values, attitudes, and interests, non-military as well as military, that shape and support (or oppose) these technologies? How does the social order reciprocally interact with military technology? Or, more generally: How do social and cultural environments within the military itself or in the larger society affect military technological change? And the indispensable corollary: How does changing military technology affect other aspects of society and culture? In brief, this symposium will address military technology as both agent and object of social change, taking a very broad view that encompasses not only the production, distribution, use, and replacement of weapons and weapon systems, but also communications, logistics, medicine, and other technologies of military relevance as well as sciences of military interest.

We seek papers about: (1) representations of weapons as well as weapons themselves, about ideas as well as hardware, about organization as well as materiel; (2) ways in which social class, race, gender, culture, economics, politics, or other extra-military factors have influenced and been influenced by the invention, R&D, diffusion, or use of weapons or other military technologies; (3) the roles that military technologies play in shaping and reshaping the relationships of soldiers to other soldiers; soldiers to military, political, and social institutions; and military institutions to other social institutions, most notably political and economic; and/or (4) historiographical or museological topics that discuss how military technology has been analyzed, interpreted, and understood in other fields, other cultures, and other times. Pre-modern and non-Western topics are particularly welcome.

Although papers may be presented in English, French, German, Russian, or Spanish, ICOHTEC will not provide simultaneous translation. **All proposals must be submitted in English** and should include three elements:

(1) A short descriptive title.

(2) An abstract of at least 200 words but no more than 250. It should include (a) your name and email address, (b) a concise statement of the thesis, (c) a brief discussion of the sources, and (d) a summary of major conclusions. **Please do not include notes or bibliography.**

(3) A 1-page CV or résumé with your educational and professional employment histories, plus a list of significant publications and/or presentations. You may include other relevant information in the CV, as long as you do not exceed the 1-page limit. **Be sure to specify your present institutional affiliation (or independent status).**

Please keep in mind that conference presentations are not complete research papers. You will be allotted no more than 20 minutes to speak, and possibly as little as 16 minutes. Precise times available to speakers will be determined after the program is complete. All participants are

encouraged to submit the full, annotated versions of their papers as articles to *Vulcan: The International Journal of the Social History of Military Technology*. Articles should be submitted to the editor, Bart Hacker, at: hacker@si.edu. For more about *Vulcan*, including sample issues and a stylesheet, see www.Brill.com/Vulcan.

Do not submit your paper proposal to ICOHTEC. The symposium is being co-organized by Bart Hacker and Ciro Paoletti. Send your proposal to Bart Hacker at: [<hackerb@si.edu>](mailto:hackerb@si.edu), no later than **28 February 2016**, but earlier is better. He will assemble and submit the complete symposium. Please feel free to distribute this CFP to anyone you believe may be interested and qualified.

Learning by Experience as a Driving Force in Technological Development: Global and Local Perspectives

Session proposal for ICOHTEC/ICHST, Rio de Janeiro, Brazil, from 23 to 29 July 2017
Deadline **22 February 2016**

One of the most important ways of using the past is in collecting experience that informs future action. We propose that learning by doing is crucial to technical development in industry. For example experienced workers can be the key to innovating in industry. What is important is that the knowledge that they derive from learning from experience be transferred to those members of a company or institution that are responsible for innovation. This session seeks to identify such knowledge and how it moves among actors. Adding "learning by experience" to the existing debate about the role of tacit knowledge for innovation will benefit the history of technology and help to make learning by experience a more accepted type of knowledge among historians.

The proposed research topic will tackle the question of relationship between learning by doing and technical development in major industrial centres all over the world. Our hypothesis is that these were closely linked. What will be particularly interesting (and new) from the global perspective will be an ability to test how assumptions applied previously in exclusively national narratives would work in transnational context. Our experience has shown that a transnational perspective is an important aspect of innovative history that facilitates understanding. Through the comparison of case studies - comparing not only across nations but also crucial industries, we will be able to develop a broader sense of the importance of learning from experience.

Propositions for papers including an abstract of 250 words and a one-page CV should be submitted by February 22, 2016. The abstract and CV should be sent via e-mail to the session organizer: Lars Bluma, Deutsches Bergbau-Museum Bochum, lars.bluma@bergbaumuseum.de

Epidemics as Technologies

Session proposal for ICOHTEC, Rio de Janeiro, Brazil, from 23 to 29 July 2017

Deadline: **26 February 2015**

Epidemics are recurrent phenomena in history. They transgress borders, move across time and space and affect different forms of life – both literally and metaphorically. Each epidemic disease poses specific challenges to societies such as Zika today. Hence, epidemic diseases and threats are perfectly suited for being analysed in a global history perspective.

The scholarship on the history of epidemics is rich. Whereas many studies come out of the history of medicine and the social and political sciences, the proposed panel session aims at examining epidemic diseases (such as typhoid, cholera and yellow fever) explicitly from the perspective of the history of technology. Thus, two dimensions will be analysed: The relationship of the discourses about epidemic threats and the technical measures taken to confine them. While historical scholarship on epidemic practices is often focusing on local or national experiences with epidemics, many studies on epidemic discourses are either focusing on the nation-state or are geographically poorly situated. In this panel, we would like to bridge this gap by analysing discourses and technology-based practices in conjunction with each other.

Technology is considered in a broad sense as an ensemble of tools embedded both in discourses and actions taken to prevent, attenuate, control or eradicate life threats. On the one hand, a metaphorical way of speaking about epidemics can often be observed. On the other hand, interventions depicted as improvements such as the upgrading of sanitarian infrastructures, the introduction of quarantine measures, the intensification of legal sanctions and the development and distribution of drugs are put into operation. Therefore, the session seeks to examine and discuss the interrelationship between epidemics and technology by focusing on various periods, geographical foci, epidemics, and technologies.

Propositions for papers including an abstract of 250 words and a one-page CV should be submitted by February 26, 2015. The abstract and CV should be sent via e-mail to cdr@ifs.tu-darmstadt.de and nils.kessel@u-pem.fr.

Chair: Mikael Hård

Session organizers: Catarina Caetano da Rosa and Nils Kessel

Call for Papers for Two Sessions on the History of the Oil & Gas Industry

44th ICOHTEC Symposium, Rio de Janeiro, Brazil, 23-29 July 2017

Deadline **25 February 2016**

1.

Unconventional History: Sixty years of science and technology in Hydraulic Fracturing

The goal of this session is bringing together practitioners from academia and industry, as well as experts from the civil society to present and discuss the historical development and application of technologies for unconventional gas and oil projects during the past sixty years.

Humankind has used petroleum for centuries, but modern oil society started only in the 1860s; this timing did not come from lack of interest or knowledge about the potential of oil as fuel, rather because man was still not 'technologically educated' to start the process of mass production and consumption of oil. Since the beginning of the oil business it was felt necessary to maximize the performance of the fields and, relying on the limited geological evidence available at the time, early technologists conceived methods to extend the life and enhance the productivity of wells using explosives and steam or acid compounds to remove depositions of paraffin. Those were unconventional methods applied to conventional wells.

After almost seventy years of 'standard drilling', a new technological trajectory in exploration and production was introduced by late 1920s when horizontal drillings were successfully experimented. The inception of hydraulic fracturing technology gained momentum in the United States when, in the 1940s, the relationship between well performance and treatment pressures was theorized. Following years of field-testing and development of an operational procedure, in 1949 the first patent for hydraulic fracturing treatments was issued. Since then, hydraulic fracturing technology has been continuously improved, developed and utilized in numerous countries. But how and to what extent? Since the 2000s, the number of fractured unconventional deposits has started to significantly affect on the total number of wells cultivated in the world. A literature review of the scientific publications from the past twenty years highlights how hydraulic fracturing is almost entirely discussed from political or environmental perspectives. There is a lack of analytic literature on the history of hydraulic fracturing intended as compendium of technologies achieved along the past several decades.

The study of the history of the oil industry often requires the historian to merge together humanities and science and an understanding of hydraulic fracturing – intended as cumulative process of technology and the creation of a technological system – implying a wealth of knowledge that historians of science, technology and energy do not have so far. The session aims to remove that hindrance and to stimulate new historical research that will increase our understanding of the artifacts, methods and skills that are going to secure for some more decades the energetic abundance at the base of our last two centuries development; and, giving us the necessary time to perfecting alternative energetic resources.

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## 2.

### **The workflow of oil: upstream, midstream, downstream technologies in 19th and 20th century**

The historians and industry professionals invited in this session will discuss the dynamics, people, facts and artifacts that along two centuries forged and improved the three rings of the petroleum production chain: upstream, midstream and downstream. The lectures are framed in a national and transnational contest with global outreach, and developed following multidisciplinary trajectories focused on science, technology, politics, economics, and environment.

Industries do not emerge accidentally; the evolution of oil & gas industry – a multi-faceted, energivorous and expensive technological system – can be compared to a small industrial revolution, whose effects have been felt over a long period of time. The development of a complex production system such as petroleum (crude oil, natural gas, condensates, LNG, and LPG) is not a linear process. It has stages of experimentation, trial and error, disappointments and success that requires large investments and the scholarship of skilled scientists and technologists. Oil in the history of the modern society is often sized just in terms of barrels produced, consumed, or spilled, while historical analyses on subjects like oil exploration, production, refining, and logistics has received limited attention from historians. As consequence, it seems that often oil is almost given for granted ‘in the tank’, with little clue on its production, and past background.

The western society is partly defined by the concept of ‘knowledge society’ in which development is deemed to follow the application of new ideas and paradigms. Considering the several roles that oil plays in daily life, the production of new scholarship on the history of oil technology bears great scientific relevance in academy and industry.

The oil & gas industry may be defined a precise mechanical system composed and assembled by unique and irreplaceable parts, and the studies presented in this panel will show how those parts are organized, coordinated and work together. The ultimate goal of the session is to foster the knowledge on the workflow in oil production; that will lead to a better understanding of the scientific and technological challenges experienced during past two centuries by oil industry to feed the complex energy ecosystem of our society.

The deadline to submit the abstract for your lecture proposal is **February 25, 2016**. Abstracts have to be accompanied by a one-page resume and submitted to [fgerali@ou.edu](mailto:fgerali@ou.edu), in copy to [francesco.gerali@uwa.edu.au](mailto:francesco.gerali@uwa.edu.au).

Thanks for your attention, I look forward receiving your lecture proposal.

Francesco Gerali, PhD

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### **History of Tourism: What can the History of Technology contribute?**

44th ICOHTEC Symposium, Rio de Janeiro, Brazil, 23-29 July 2017

Deadline **20 February 2016**

During the second half of the 20th century tourism became a typical leisure activity of members of consumer societies. Meanwhile tourism is one of the most important sectors of the economy and is of global occurrence. Indeed cities are growing especially for tourism. For example, the Spanish Costa del Sol developed from an economically poor region of agriculture and fishing in the 1950s to a mega city of 150 km length today. The city's environment and the city's infrastructure is designed especially for tourism. What about the technical requirements and the environmental impacts of such developments? In which way were experiences of travelling shaped by technology and by the built environment?

Papers could deal with:

- The technical development of hotels or apartments for vacation
- The infrastructure of tourist places
- The development of transportation facilities
- Old and new technology as tourist attraction
- Comparison of relatively new special tourist cities and cities which became tourist places due to their history as the Austrian city of Salzburg
- The environmental impact of tourism and its ongoing discussions
- The experiences of touristic travelling and the role of technology

Please contact me, submit an abstract of 250 words, and a one-page CV to [poser@hsu-hh.de](mailto:poser@hsu-hh.de) until **20 February 2016**.

Stefan Poser, Helmut Schmidt University, Hamburg

### **ICHSTM Panel: Electric Energy in History: social, economic and cultural issues**

25th International Congress of History of Science, and Technology (ICHST), Rio de Janeiro, Brazil, 23 to 29 July 2017

Deadline: **15 March 2016**

Nearly 200 years ago H.C. Oersted contributed with a major breakthrough towards unlocking a natural property linking electricity and magnetism. In a few decades the earlier prototypes of

generators and motors had become trademarks of a new industrial spurt and were overwhelmingly taking place in the economic infrastructure that formed our present way of life. Electricity was versatile enough to be used in factories, transportation, illumination, and recreation. Later on, this impulse was enhanced by the vertiginous growth of electronic devices, and the ubiquitous presence of information processing both as a source of everyday comfort confidence and as a source of worry about its potential capacity of control over our lives. During these two centuries a tremendous development of scientific theories and technological applications have opened up new and challenging perspectives, directly or indirectly related to electric energy. A nation's position is assessed in several rankings of development by evaluating per capita consumption of electricity. In fact, man's dependence upon the production and use of electricity is such that its abundance is also tied to overcoming the undesirable effects of fossil fuel combustion. This session will welcome papers related to the history of electric energy in its diverse dimensions.

Topics to be presented include the historic appreciation of the development of the following subjects, but need not to be limited to them:

- ✓ Integration of electrical networks and the economic policies of interconnected grids
- ✓ Transmission line developments, from point to point transmissions to smart systems
- ✓ Planning of energy consumption and production
- ✓ The landscapes and the environment of energy production, transmission and local distribution
- ✓ Energy issues from the consumer's viewpoint.
- ✓ Industrial heritage related to electricity production
- ✓ Technological cycles in equipment (generators, motors, transformers, cables, automation etc.) and system's evolution.
- ✓ Electricity as leisure and entertainment, cultural impacts.
- ✓ From the wired to the wireless world
- ✓ Distribution of wealth and electric concentration
- ✓ Pollution and environmental awareness: enterprises, public opinion and politics.

**PANEL COORDINATION:**

Gildo Magalhães Santos, São Paulo University, Brazil.

Nuno Luis Madureira, Lisbon University Institute, Portugal.

Our deadline is **March 15, 2016** for receiving the names and affiliations of those wishing to join (nothing else is needed right now).

Submissions open until 30 June 2016. Please send an abstract (100-150 words), you affiliation and a short curriculum to: [gildomsantos@hotmail.com](mailto:gildomsantos@hotmail.com), [nuno.madureira@iscte.pt](mailto:nuno.madureira@iscte.pt)

## I.5 ICOHTEC's Reviewed Journal ICON - Submissions

Send your paper to ICON! ICON welcomes submissions from everyone including especially those who presented at ICOHTEC's 2015 conference in Tel Aviv for its 2016 issue.

ICON publishes papers covering all aspects and periods in the history of technology, but devotes special attention to the discussion of contemporary problems of technology in their socio-economic and cultural settings. The journal's goal is to foster co-operation amongst scholars from all parts of the world by providing timely review and circulation of ideas to an international audience of like-minded individuals.

ICON welcomes submissions from non-ICOHTEC members as well as members, and particularly encourages submissions from authors for whom English is not their first language. All papers are chosen by peer review, using a double blind process, and authors will be given editorial assistance to improve clarity and vigor of written expression.

ICON is now available via JSTOR as well as ICOHTEC's website. Please send your manuscripts (paper plus abstract) to the editor Hermione Giffard, at [hgiffard@gmail.com](mailto:hgiffard@gmail.com).

For information about format, please consult our guidelines for contributors at <http://www.icohtec.org/publications-icon-guidelines.html> Further information about the journal is also available at <http://www.icohtec.org/publications-icon.html>

Papers sent by 1 June 2016, will be considered for the 2016 issue.

## II. Conference Announcements

**16 March 2016**

**Accessible Regions, Growing Regions? An International Conference. Twenty years under the Channel, and beyond. To celebrate the 30<sup>th</sup> Anniversary of the Treaty of Canterbury**  
Canterbury, Cathedral Lodge

Is transportation infrastructure a condition for economic growth and development? Few assertions have been more controversial, continually creating vivid economic policy debates. Further to the Lille conference (19 March 2015), the third international conference on the agenda of the **Programme Twenty years under the Channel, and beyond**, aims to assess the impact of the Cross-Channel rail system on the regions both brought together and crossed by the Channel Tunnel and its high-speed railway network, giving prospective consideration to its further expansion into larger areas along with additional services.

This event celebrates the **30<sup>th</sup> Anniversary of the Treaty of Canterbury**, signed in the presence of Margaret Thatcher and Francois Mitterrand in 1986, inaugurating the Channel Tunnel project.

**Keynotes speakers:** Prof. Philippe De Wilde, Pro Vice-Chancellor, University of Kent / Ricard Anguera Camós, Senior Manager, ALG-INDRA / Prof. Yves Crozet, Université de Lyon / Stephen Gasche, Principal Transport Planner, Kent County Council / John Preston, Professor of Rail Transport, University of Southampton / Roger Vickerman, Dean for Europe and Professor of European Economics, University of Kent

Partners for the Program Twenty years under the Channel, and beyond: Mr Christian Cambier, Rise Conseil

Partner for the Event: University of Kent

Full program and online registration: [www.ahicf.com](http://www.ahicf.com)

Please contact [20yearschnnel@ahicf.com](mailto:20yearschnnel@ahicf.com)

### **14 – 16 April 2016**

#### **Eleventh Biennial Automotive History Conference**

Cleveland, Ohio

A full conference program and instructions for registration have been posted on the Society's website [www.autohistory.org](http://www.autohistory.org).

Questions may be addressed to Arthur Jones, Conference Chair, at [nomecos@verizon.net](mailto:nomecos@verizon.net)

### **16 – 18 June 2016**

#### **Ernst Mach Centenary Conference: Ernst Mach (1838-1916) – Life, work, and influence**

Universität Wien; Österreichische Akademie der Wissenschaften, Vienna, Austria

CFP – Deadline **15 February 2016**

2nd Call for Papers

Ernst Mach (1838-1916) ranks among the most significant natural scientists and philosophers of the 19th and 20th century. In physics paving the way for Einstein's Theory of Relativity and opposing Boltzmann's Atomism, in biology, psychology and physiology pioneering with an empiricist and 'gestalthaft' "Analysis of Sensations", in philosophy of science serving as a model for the Vienna Circle with the Ernst Mach Society as well as paving the way for an integrated history and theory of science. His influence extends far beyond the natural sciences – to the Vienna Medical School and psychoanalysis (R. Bárány, J. Breuer, S. Freud), to literature („Jung Wien“, R. Musil), to politics (F. Adler, Austro-Marxism and the Viennese adult education), to arts between Futurism and Minimal Art as well as to social sciences between the liberal school (J. Schumpeter, F.A. von Hayek) and empirical social research (P. Lazarsfeld und M. Jahoda). In today's pedagogy, his genetic theory of learning is just as respected as his method in historical epistemology. Mach's international impact already showed during his lifetime, in American Pragmatism (W. James) and French Conventionalism (P. Duhem, H. Poincaré).

On the occasion of the centenary of Ernst Mach's death, the Institute Vienna Circle organizes an international Symposium on the life, work and influence of this natural scientist and philosopher who

worked at the University of Vienna and the Austrian Academy of Sciences for many years and who exerted significant influence on several generations of scholars and scientists as well as of cultural and political agents. The main goal is a critical inventory of Mach's lifework in line with state-of-the-art research and historiography – not least supported by the Ernst Mach Studienausgabe (study edition) and the work in the framework of the newly established Commission for the History and Philosophy of the Austrian Academy of Sciences.

We invite the submission of individual papers and proposals for symposia for the international "Ernst Mach Centenary Conference". Contributions related to one or more of the subsequent sections are welcome.

Conference languages: English, German, French.

- Proposal for individual papers (Word or pdf format) should contain:

Title and abstract (1000 characters) and extended abstract (1000 words) of the paper.

- We welcome the submission of proposals for symposia assembling papers dealing with related topics. All titles and abstracts for the individual papers in the symposium should be included in the submission. (Each symposium will be allotted 120 minutes with 3-4 papers).

- Address of the speaker(s) incl. email, phone and institutional affiliation

Submission to: [ivc@univie.ac.at](mailto:ivc@univie.ac.at), subject: "Mach Centenary Conference 2016"

Please prepare your submission for blind review.

The time unit for one paper is 40 minutes (max. 30 minutes speaking time).

A selection of individual papers and symposia will appear as a volume with Springer.

Deadline for submissions: February 15, 2016

Date of notifications: March 15, 2016

Via conference website: <http://mach16.univie.ac.at>

Please visit <http://mach16.univie.ac.at>

Please contact Cornelia Hülmbauer, IKT ÖAW, [ivc@univie.ac.at](mailto:ivc@univie.ac.at)

**26 June 2016**

**Prometheans/WITH Workshop - SHOT Annual Meeting 2016**

Singapore

CFP – Deadline **22 February 2016**

Two SHOT Special Interest Groups (SIGs) - WITH and the Prometheans - invite people to submit abstracts for possible presentations at a joint SIG workshop on Gender, Geographies, Engineering and Technical Work, to be held Sunday afternoon, June 26, 2016 in Singapore. The theme is: "Who

Claims Technical Knowledge? Gender, Geographies, Engineering, and Technical Work." The organizers and contact people are Amy Bix (Iowa State University, [abix@iastate.edu](mailto:abix@iastate.edu)) and Ann Johnson (Cornell University, [aj532@cornell.edu](mailto:aj532@cornell.edu))

On Sunday afternoon, June 26, 2016, as part of SHOT's annual meeting in Singapore, two SHOT Special Interest Groups, WITH and the Prometheans, plan to hold a unique joint workshop to focus on gender as a dimension in the history and culture of engineering and technical work, across different periods and geographic locations. WITH (Women In Technological History) is the SHOT SIG that seeks to promote gender analysis within history of technology; Prometheans are the SIG interested in historical studies of engineering and its professional communities.

Across history, different societies have adopted varying frameworks for masculinity, femininity, gender, and work. From pre-industrial societies in Asia, Europe, or elsewhere, through modernization, to today's high-tech globalized economy, gender has always remained a factor in engineering, in the production of goods and services, in performance of household tasks, and in the structure of business, government, and society. While formal rules of employment and unwritten norms might seek to determine who could or could not claim different types of technical knowledge, men and women often stretched, challenged, or changed such codes.

For this workshop, we seek research papers that explore connections between gender/women's studies and the history of technology and engineering, all broadly defined. We invite proposals in areas including (but not limited to):

- \* Studies of gender and engineering in different times and places; histories of women engineers, of masculinity/femininity and engineering culture, etc.;
- \* Studies of gender, the technical professions, and technical work in different times and places- women, men, and employment in various industries and businesses;
- \* Studies of gender and technical knowledge - how information, expertise, and education have been linked to masculinity, femininity, or gender across different times and places;
- \* Links from gender analysis to broader discussions of diversity, engineering, and technical knowledge, across different times and places;
- \* Studies of gender and STEM (science, technology, engineering and math) education at all levels and in all aspects, including educational structure, teaching, pedagogy, student experience, identity formation, etc.;

To propose a paper to be considered for this workshop, please send a one-page abstract (in .pdf format - maximum 500 words), plus a one-page short CV (in .pdf format) with current contact information, to both Amy Bix ([abix@iastate.edu](mailto:abix@iastate.edu)) and Ann Johnson ([aj532@cornell.edu](mailto:aj532@cornell.edu)). The deadline for submission is February 22, 2016. Proposals will be evaluated for inclusion based on quality of scholarship, clarity, and relevance to workshop themes. People are welcome to propose a paper for the joint Prometheans/WITH Singapore session, even if they have also already submitted a

proposal for a different paper for the main SHOT program, and will be allowed to present both if accepted.

### **3 – 9 July 2016**

#### **Annual Conference of ICOM's International Committee for Museums and Collections of Science and Technology, CIMUSET**

Milano, Italy

The Call For Papers for the 2016 Annual Conference of CIMUSET (ICOM International Committee for Museums and Collections of Science and Technology) is now open! The Conference will be held in Milan, Italy, from 3 to 9 July, 2016, during the 24th ICOM General Conference.

Following the main theme of the General Conference "Museums and Cultural Landscapes building up a Cultural Heritage" the proposed topic for the CIMUSET meeting will be: "What role for science, technology and industry in cultural landscapes?" If you would like to present your project please send your proposal for papers (title, text 500–700 words) or for posters (A1, portrait format) along with a brief professional profile (150 words) through the application form available at this form.

The call for papers will be open until 18th February 2016.

CIMUSET conference is intended to present the atmosphere of a workshop and is open to all General Conference participants.

We look forward to seeing you in Milan!

Sincerely

*CIMUSET Annual Conference Organising Committee*

Please visit [www.museoscienza.org](http://www.museoscienza.org)

Please contact Laura Ronzon, Head of Collection and Curators, Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinci, Milano, [cimuset@museoscienza.it](mailto:cimuset@museoscienza.it)

### **6 – 8 July 2016**

#### ***Restoration and Preservation of Historic Structures. Henderson Colloquium 2016. IABSE British Group***

Christ College Cambridge

(no deadline mentioned)

Historic structures have intrinsic value in their own right as the embodiment of engineering achievement in design and construction. They provide a basis for understanding architectural design and generate the stimulus for creative development of new architectural forms. They provide a tangible resource for the teaching of social, economic, political and human history; helping to create a better understanding of modern society and culture.

Historic structures attract visitors from overseas and encourage domestic tourism. They are an essential element of the Tourism industry, which is important to the national economy. Tower Bridge is a London icon and the dome of St Paul's Cathedral has dominated the London skyline since the late 1600's. These are just two examples of historic structures that attract countless visitors to London every year.

Bringing new life to our most compelling structures can be an architectural and engineering roller coaster ride but it is only through proper protection, conservation and management of historic structures, supported by investment in their maintenance, repair and alteration that the substantial benefits of these structures can continue to be realised. Matching traditional structures with contemporary design can create something really special that others might aspire to.

The preservation of historic structures has public support and it is broadly accepted that we have a duty to conserve our aging built heritage for future generations.

### **The Objectives of the 2016 Henderson Colloquium**

There is a growing need to effectively and competently design and specify historic structure maintenance and refurbishments. This requires a comprehensive understanding of appropriate restoration and preservation techniques and approaches. Engineers can now provide asset owners with better analysis, better technology and ultimately better solutions to their problems.

Discussing preservation techniques, priorities and outcomes within the group under 'Chatham House Rules' will promote critical evaluation of the results of preservation processes and generate greater understanding of the appropriate use of materials and the role of Engineers and Architects in preserving our most compelling historic structures in a range of different contexts.

**Outcome(s)** – The colloquium would be followed up with an educational journal (printed and electronic format) that could be developed into a meeting/workshop at the IStructE or similar venue to expand the consensus views from the colloquium and disseminate to a wider audience.

**Participants** – invited from industry, academia, government agencies, contractors etc individuals with a range of ages will be sought who are informed practitioners, challenging in their approach and with a range of experience.

Please contact Mike Chrimes, [m.chrimes@ntlworld.com](mailto:m.chrimes@ntlworld.com)

**20 – 22 October 2016**

**Putting Preservation on the Road: Protecting Our Overlooked Automotive Heritage in the Twenty-first Century**

Historic Vehicle Association Research Laboratory, Allentown, Pennsylvania, USA

CFP – Deadline **15 March 2016**

The Historic Vehicle Association (HVA) and the Historic Preservation & Community Planning Program at the College of Charleston are pleased to announce the following call for papers for an international conference on the preservation of automotive heritage.

For much of the twentieth century heritage preservation primarily focused on sedentary objects (i.e., 1906 Antiquities Act in the United States, 1919 Historic Sites and Monuments Board in Canada, etc.). While some countries have studied and documented vehicles for preservation and/or conservation, their official recognition as landmarks or on registers of official distinction has largely been overlooked. This is most apparent within the field of automotive heritage. For example, within the United States there are over 90,000 separate listings for buildings, sites, structures, districts, and other objects on the National Register of Historic Places (NRHP). Vehicles on the NRHP include historic ships, railroad locomotives and streetcars, equipment related to the space age, and so forth – but not a single automobile or similar vehicle related to this form of transportation. This is also the case for the approximate 12,500 sites on the Canadian Register of Historic Places. Individual automotive vehicles by themselves are not listed as contributing elements – just the stationary buildings and sites. Considering that there is a precedent for both, such as moving ships and trains as well as stationary buildings and places on automotive heritage, the question becomes "why not automobiles?" Hence the newly-created National Historic Vehicle Register (NHVR), which can be used as a tool to carefully and accurately document the most historically significant automobiles, motorcycles, trucks, and commercial vehicles, as well as recognize the dynamic relationship between people, culture, and their means of transportation. The NHVR was developed by the Historic Vehicle Association (HVA) in partnership with the U.S. Department of the Interior in March 2013 to explore how vehicles important to American and automotive history could be effectively documented. Using Historic American Engineering Record (HAER) standards, this project is the first of its type to create a permanent archive of significant historic automobiles within the Library of Congress (see <https://historicvehicle.org/national-historic-vehicle-register/>).

The issue of overlooking historic vehicle preservation becomes further exasperated when we consider that *none* of the accredited programs in historic preservation and heritage conservation (more than sixty with the National Council of Preservation Education, a dozen with the National Roundtable of Heritage Education, among others in various countries) offer permanent coursework on the subject, let alone any other form of training or directed study. This is significant when we consider how much of our global economy, landscape, built environment, culture, and way of life across the world has been affected by the automobile. The NHVR is an important starting point in our efforts to study the role of automobiles in the formation of our cultural landscapes, but there is much work that must follow. Automobiles have been designed no less than buildings or furniture to engage with broader cultural phenomena, to answer – and indeed to inspire – human needs and desires that are inseparably intertwined with time and place. Furthermore, cars have been interpreted and re-interpreted by human beings in complex ways that often go beyond the intentions of their designers; they are cultural products not only of broad and powerful impact, but also of great complexity, and as such they must be contextualized in historical research if they are to be understood. Just because automobiles *move* should not be the disqualifying reason for not studying them. Indeed, we have lost much of our automotive heritage due to this lack of awareness, especially when considering that in the United States alone, prior to 1930, there were over 2,600 different automotive manufacturers. Today we are left primarily with the "Big Three" and a handful of minor manufactures. Not all pre-

1930 companies were based in traditional places of manufacture Michigan, Bavaria (Germany), or Turin (Italy). For instance, South Carolina had its own independent companies, such as Anderson, during the 1910s and 1920s. Other countries too, whom we don't normally think of as having their own homegrown auto industry, at one time did. Among these are the nearly forgotten Canadian manufactures Derby, Gray-Dort Motors, and Russell Motor Car Company. This local and regional heritage has largely been forgotten.

Suggested presentation topics may include, but are not limited to:

- Case studies of regional and local automotive culture and heritage, including those viewed through the lens of ethnic/regional studies (American studies, Canadian studies, material culture studies, studies of nomadic peoples, etc.)
- Considering if there is a world automotive heritage, whether UNESCO or ICOMOS should be encouraged to get involved, and the role of FIVA (Fédération Internationale des Véhicules Anciens) as part of this.
- Innovative ways to add the preservation of automotive heritage to the educational curriculum within colleges/universities, high schools, and technology schools.
- Make better known the NHVR as an appropriate alternative to the NRHP for cars, trucks, motorcycles, and other vehicles: If "this place matters", then by extension, there is the argument that "this car matters" too.
- Using HAER/HABS techniques for studying and documenting historic vehicles, as well as exploring innovative techniques and tools through the use of new technologies
- Reevaluating listed historic places and sites, as well as considering new places where buildings and landscapes (etc.) are tied with vehicles and people, in a more comprehensive designation that ties together the NHVR and NRHP, where both building/structure and car/vehicle elements are equally contributing.
- Case studies of best practices related to preservation, conservation, restoration, adaptive reuse, and reconstruction of automobiles and associated material culture.
- Recognizing important designers of automobiles in the same manner as architects.
- Vernacular automotive design and use vs. haute design and auto racing preservation, in order to better understand the cultural meaning of vehicles for ordinary people in their everyday lives.
- The approaches of allied fields in the preservation of automotive heritage, such as public history, archaeology, museum studies, cultural resource management, design/architectural history, etc.
- Automobility and the environment, such as the rehabilitation of historic automobiles, and its relationships with energy efficiency, embodied energy and so forth in transportation ("is the *greenest* car one that has already been built?")
- Establishing standards for the proper treatment of historic vehicles so as to define what is appropriate preservation, rehabilitation and restoration. This can include the U.S. Secretary of the Interior, as well as the Standards and Guidelines for Conservation in Canada, among others, as well as qualification standards for the people who work on them. The Turin Charter (2012) can serve as a template for such standards in a similar way to the Athens (1933) and Venice (1964) charters do for buildings.

- Preserving historic vehicle trades, maintenance and materials to prevent them from becoming a dying vocation through the preservation of automobiles in a manner similar to building trades professions. The way we once built and maintained cars is a fading practice, akin to traditional building trades (carpentry, plastering, etc.), especially when you consider that it is now standard for cars to no longer have an oil dipstick, let alone other DIY maintenance accessories.
- Analyzing the contributions of automotive preservation heritage events, auto shows, museums, etc. to the economy and tourism – information that is not always fully included in Main Street programs and other economic development initiatives related to preservation planning.

The program committee invites proposals from people of all backgrounds and professions to participate – from senior professionals to students with innovative ideas – for the following:

1. Panels: We prefer to receive proposals for complete three to four presentation/paper sessions but will consider individual presentations as well. You are welcome to include a chair and/or moderator or the conference committee will appoint a chair. The entire panel presentation should span no more than 60 minutes.
2. Individual Papers: If accepted, we will place your individual presentation on a panel or roundtable selected by the committee. Paper presentations should span no more than 20 minutes.
3. Roundtables: Discussions facilitated by a moderator with three to five participants about a historical or professional topic or issue. Roundtables should span no more than 60 minutes.
4. Workshops/Demonstrations: Interactive presentations led by facilitators to encourage learning about a professional topic or issue. Workshops/demonstrations should span no more than 60 minutes.
5. Posters/Short Film: Interactive presentations produced and facilitated to encourage learning about a professional topic or issue. Poster presentations and short films should span no more than 10 minutes.

Please submit proposals of no more than 500 words and a brief CV/resume (two pages maximum) in a PDF or MS Word format to Barry L. Stiefel at [stiefelb@cofc.edu](mailto:stiefelb@cofc.edu). Deadline for proposals is May 15, 2016. Proposals should include the name(s) of presenters, affiliation/position and contact information. While the Historic Vehicle Association and the College of Charleston are based in the United States, and has influenced our worldview, we desire this to be an international conference and encourage the participation of others from elsewhere. The official language of the conference will be English, though presentations may be conducted in other languages. For people who desire to present in a language other than English, abstracts should be sent in the vernacular of the presenter as well as English to ensure the review committee can adequately evaluate. Decisions on proposals for the conference will be made by June 1, 2016.

From the conference we anticipate publishing an edited volume of scholarship with a distinguished press or journal.

For participants traveling more than 100 miles to Allentown, Pennsylvania (50 miles for students), assistance with travel and accommodations for the conference will be considered. Please provide a budget of what you need assistance with in your proposal, as well as what other resources from which you anticipate receiving support. A registration fee will be required for the conference (likely around US\$25 as part of the RSVP system), which will come with a one-year membership with the HVA.

Conference Organizers:

Barry L. Stiefel, Assistant Professor, College of Charleston, [stiefelb@cofc.edu](mailto:stiefelb@cofc.edu)

Mark Gessler, President, Historic Vehicle Association

Academic Committee:

Casey Maxon, Historic Vehicle Association

Nathaniel Walker, College of Charleston

Amalia Leifeste, Clemson University

Nancy Bryk, Eastern Michigan University

Jeremy Wells, Roger Williams University

Amanda Gutierrez, McPherson College

Richard O'Connor, Chief for Heritage Documentation Programs, Dept. of Interior

Alex Gares, Canadian Automotive Museum

Bruce Judd, Goucher College

The Historic Vehicle Association and the College of Charleston also seek to encourage the support of historical/heritage and education-related institutions and organizations on the topic of automotive heritage preservation. Kindly contact Barry L. Stiefel at [stiefelb@cofc.edu](mailto:stiefelb@cofc.edu) if you should be interested in showing your support, which will be recognized in the conference program and other materials, as appropriate.

Please visit URL: <https://historicvehicle.org/>

Please contact Barry L. Stiefel, Assistant Professor, Historic Preservation & Community Planning Program, College of Charleston, [stiefelb@cofc.edu](mailto:stiefelb@cofc.edu)

**18 – 19 November 2016**

**Synthetic Materials. Synthetically Transforming the World. 39th History of Technology Conference of the Eisenbibliothek, Iron Library, Foundation of Georg Fischer Ltd**

Klostergut Paradies, Schlatt, Switzerland

CFP – Deadline **31 March 2016**

The 39th History of Technology Conference will be held at the Kloostergut Paradies in Schlatt near Schaffhausen, Switzerland on 18 and 19 November 2016. The Conference has served as an outstanding platform for the exchange of ideas between research, teaching and industry since 1978. The speakers and the invited guests come from universities, libraries, collections and museums or contribute their business and industrial experience. The conferences are renowned for the breadth and topicality of the papers presented. Please find information on previous conferences at: [www.eisenbibliothek.ch](http://www.eisenbibliothek.ch).

This international and interdisciplinary event is organized by the Iron Library (Eisenbibliothek), Foundation of Georg Fischer Ltd. Responsibility for the content of the conference is in the hands of a scientific advisory board consisting of Kilian T. Elsasser (Museumsfabrik Lucerne), Dr. Gisela Hürlimann (ETH Zurich), Prof. Reinhold Reith (University of Salzburg) and Prof. Friedrich Steinle (TU Berlin), and it is they who decide on the selection of the speakers.

We kindly invite interested persons involved in research, teaching and practice to apply to present a paper.

#### **Conference topic in 2016:**

##### **Synthetic Materials. Synthetically Transforming the World**

Seen from the viewpoint of human history, *homo faber* initially used natural materials, i.e. materials taken from nature, that he then shaped and fashioned. In the history of technology, interest has focused primarily on production technology, or modifying materials by means of machines, and on exploiting the possibilities that such processing opens up. At the 2016 Conference on the History of Technology, in contrast, the discussion will spotlight the materials themselves and their transformation. The focus will be on synthetic materials, or the modification of natural materials up to and including the creation, development, production, and use of synthetic materials. In historical terms, the Conference will cover a broad spectrum, ranging from early alloys to alchemy (which always involved specialists for transforming materials and creating new materials) and to the synthesis of new dyestuffs and the plastics revolution in the 20th century. Papers may deal with individual materials such as lacquers/resins, glass, porcelain or even stucco marble, which because of its malleability is considered the quintessential synthetic material of the baroque age. Many artificial materials functioned as surrogates or imitations. Synthetic processes, in other words the industrial transformation of materials, for instance for dyestuffs, pharmaceuticals, rubber, lubricants, textiles and of course plastics in the narrower sense, were driven by such factors as high prices, scarcity or limited availability on the world's markets. Ultimately, the aim was to disconnect materials from the limited productivity of nature.

This "longue durée" approach to the development of synthetic materials does not ignore the fact that as a result of new synthesizing processes the output and demand for plastics has exploded since the 1950s. In recent years, synthetic materials have experienced a boom in areas such as machine building, construction and vehicle engineering, and network infrastructures. In the context of the third industrial revolution, these materials have been combined with digitally controlled production methods with the aim of creating hybrid natural-synthetic products and smart materials that will in the near future be able to adapt flexibly to their environment.

As a counterpoint to the opportunities afforded by synthetic materials – their superiority to natural materials in terms of purity and color, etc. and their ready availability – new challenges have

emerged, such as production methods that are hazardous for man and the environment, the emission of pollutants in the soil, air and water, the issue of obsolescence, and a worldwide (plastic) waste crisis. These topics may also be dealt with in the papers and discussions.

### **Format**

The papers may be delivered in German or English and should not be longer than 20 minutes. Papers that have been prepared to scientific standards may be selected for publication in the specialized journal *Ferrum*, which is published annually by the Iron Library.

### **Synopsis**

Interested applicants are kindly invited to submit a synopsis of their paper – no longer than two A4 pages (4'000 characters) – in German or English, along with an up-to-date resume, by 31 March 2016 to the Head of the Iron Library, lic. phil. Franziska Eggimann ([franziska.eggimann@georgfischer.com](mailto:franziska.eggimann@georgfischer.com)).

### **Organizational matters**

The Iron Library, Foundation of Georg Fischer Ltd, will assume speakers' travel expenses and the cost of room and board during the Conference. We expect that speakers will attend the entire Conference.

### **Timelines**

We request you to submit your synopsis by 31 March 2016.

The selection of the speakers will be completed by the end of May 2016 at the latest.

Please visit [www.eisenbibliothek.ch](http://www.eisenbibliothek.ch),

<http://www.eisenbibliothek.ch/content/gf/ironlibrary/en/events/tgt/tgt-2016.html>

Please contact Franziska Eggimann, Head Iron Library and Corporate Archivist Georg Fischer Ltd, [franziska.eggimann@georgfischer.com](mailto:franziska.eggimann@georgfischer.com)

### **19 – 20 January 2017**

#### **Kulturen des Reparierens und die Lebensdauer technischer Dinge / Cultures of Repairing and Life Spans of Technical Artefacts Workshop at the IZWT (Interdisziplinäres Zentrum für Wissenschafts- und Technikforschung),**

Bergische Universität Wuppertal, Germany

CFP – Deadline **8 April 2016**

Please visit <http://www.hsozkult.de/event/id/termine-29863>

Please contact Stefan Krebs, Institute for History, University of Luxembourg, [stefan.krebs@uni.lu](mailto:stefan.krebs@uni.lu)

Gabriele Schabacher, Geschichte und Theorie der Kulturtechniken, Bauhaus-Universität

Weimar, [gabriele.schabacher@uni-weimar.de](mailto:gabriele.schabacher@uni-weimar.de)

Heike Weber, Technik- und Umweltgeschichte, Interdisziplinäres Zentrum für Wissenschafts- und Technikforschung (IZWT), Bergische Universität Wuppertal, [hweber@uni-wuppertal.de](mailto:hweber@uni-wuppertal.de)

### III. Calls for Contributions

#### **Commercial Exchange in Central Europe between the 13th and 17th Centuries. Special issue of the Hungarian Historical Review**

Deadline for abstract submission **15 March 2016**

Deadline for complete manuscripts **15 June 2016**

The Hungarian Historical Review invites submissions for its first issue in 2017, the theme of which will be “Commercial exchange in Central Europe between the thirteenth and seventeenth centuries”.

The aim of the special issue is to investigate:

- the participants in commercial networks (merchants and tradespeople, merchant associations and merchants guilds);
- the channels that facilitated commercial relationships;
- the institutional frameworks of commercial relations (laws, local rules, limitations on trading, tolls);
- trade institutions;
- the flow of information;
- foreign goods marketed in the Carpathian Basin;
- Hungarian goods sold on foreign markets;
- non-commercial factors that influenced commercial relationships (factors facilitating or obstructing trade, such as features of the natural environment, road networks, infrastructural requirements, etc.)

We provide proofreading for contributors who are not native speakers of English.

Please send an abstract of no more than 500 words and a short biographical sketch, together with a brief biography and selected list of three publications (we do not accept CVs).

The deadline for the submission of abstracts: March 15

Proposals should be submitted to the organizers by email:

meh@btk.mta.hu and hunghist@btk.mta.hu

Boglárka Weisz and Tamás Pálosfalvi will serve as special editors of the issue.

The editors will ask the authors of selected papers to submit their final articles (max. 10.000 words) no later than June 15. The articles will be published after a peer-review process. All articles must conform to our submission guidelines: <http://hunghist.org/index.php/forauthors>

The Hungarian Historical Review is a peer-reviewed international journal of the social sciences and humanities the geographical focus of which is Hungary and East Central Europe. The Hungarian Historical Review is published quarterly by the Hungarian Academy of Sciences, Research Centre for the Humanities, Institute of History, Budapest

Please visit: <http://hunghist.org>

Please contact: [hunghist@btk.mta.hu](mailto:hunghist@btk.mta.hu)

## IV. Awards and Scholarships

### Article Prize of the NTM Zeitschrift für Geschichte der Wissenschaften, Technik und Medizin“

Deadline for application **1 April 2016**

This prize for young scholars will be awarded for the first time.

Please visit <http://www.dggmnt.de/index.php/willkommen/ntm-artikelpreis.html>

Please contact [redaktionntm\[at\]uni-wuppertal.de](mailto:redaktionntm[at]uni-wuppertal.de)

## V. Miscellaneous

### ***Más allá del arco. Puentes de la modernidad / Beyond the arch: modernist bridges.*** **Exhibition in Madrid**

The exhibition *Más allá del arco. Puentes de la modernidad [Beyond the arch: modernist bridges]* will open to the public on 9 February. The exhibition was organised by CEDEX (Centre for Public Works Studies and Experimentation) and CEHOPU (Centre for Historic Studies on Public Works and Urban Planning); it will be on display in the 'Arquerías' Hall, Ministry of Public Works in Madrid. The exhibition includes a selection of books on loan from Fundación Juanelo Turriano's library.

## VI. Recently Published Books and Journals

The Asociación para la Conservación y Estudio de los Molinos [ACEM, Association for the Conservation and Study of Mills] has released a new issue of its online journal *Molinum*.

Molinum no 50, December 2015:

[http://issuu.com/molinosacem/docs/molinum50diciembre2015?utm\\_source=Newsletter&utm\\_medium=newsletter&utm\\_campaign=Newsletter+94+January+2016](http://issuu.com/molinosacem/docs/molinum50diciembre2015?utm_source=Newsletter&utm_medium=newsletter&utm_campaign=Newsletter+94+January+2016)

This issue on waterworks in abbeys gives a contribution on the Yuste Monastery water supply system before the death of Emperor Charles V. The authors, Javier Goicolea Zala and García Rueda Muñoz de San Pedro, are respectively former General Manager and former Head of the Documentation Department of the Fundación Juanelo Turriano. A second article, signed by foundation trustee David Fernández-Ordóñez, provides a photographic overview of the network that supplies water to Guadalupe Monastery.

## **VII. Join ICOHTEC**

An ICOHTEC membership makes you a member of the scholarly network of the UNESCO-based International Committee for the History of Technology, ICOHTEC.

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- Electronic access to back issues of ICON (published since 1995)
- ICOHTEC's electronic Newsletter (published monthly – available via mailing list and on the homepage)

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